

Transition to Soot-free Heavy-duty Vehicles and Fuels:
Regional Workshop for Southeast Asia
25 – 26 August 2021 (09.00 – 12.00 GMT+7)
Zoom Workshop

AGENDA

Background and rationale

The International Council on Clean Transportation (ICCT) together with United Nations Environment Programme (UNEP) are implementing a project funded by the Climate and Clean Air Coalition (CCAC) to address the issue of emissions from heavy-duty vehicles and fuels in the ASEAN region. The ICCT is a non-governmental organization based on Washington DC, that provides first-rate, unbiased research and technical scientific analysis to environmental regulators. Its mission is to improve the environmental performance and energy efficiency for road, marine, and air transportation to benefit public health and mitigate climate change.

Heavy duty diesel vehicles move a large share of people and goods, yet this reliance on diesel technology comes with significant environmental and health cost. HDVs are responsible globally for 86% of on-road diesel NOx emissions and 78% of on-road diesel black carbon (BC) emissions, despite accounting for less than a quarter of the diesel vehicle fleet. The disproportionate contribution of HDVs to air-quality issues is a key reason for their prioritization by the Climate and Clean Air Coalition (CCAC) Heavy Duty Vehicles Initiative (HDVI).

Diesel BC emissions from heavy-duty vehicles can be controlled with the adoption of tailpipe emission standards for new vehicles equivalent to Euro VI, or US 2010, and corresponding fuel quality standards. Alternatively, zero emission engines (electric) are an increasingly important and attractive technological solution considering their elimination of tailpipe emissions, decarbonization potential, and attractive total cost of ownership.

For the Southeast Asian region, coordinated actions to harmonize technical regulations in trade blocs such as ASEAN could potentially enable a group of countries to progress faster than if each country were to develop technical regulations individually. Alignment of vehicle emission standards, fuel quality standards, and used vehicle import policies among countries with strong economic ties could have added benefit of eliminating or reducing barriers to progress, such as competitiveness concerns, cross-border traffic, used vehicle markets, limited access to cleaner fuels, and limited availability of vehicle models meeting local design specifications.

Objective and scope

This workshop is expected to be able to generate and facilitate discussion among various stakeholders and experts in the field, and exchange opinions and insights related to vehicle emission standards and fuel quality in the ASEAN region. The key outputs from this workshop are expected to contribute to:

1. Development of information fact sheets and policy briefs on various technologies to achieve soot-free transport, e.g., electric and hybrid drive, diesel Euro VI technology and fuels, CNG, biofuels, etc.;
2. Share lessons from the cost-benefit analysis of Euro 6/VI that have been carried out by ICCT, for example the Soot-free Road transport in Indonesia: A cost-benefit analysis and implications for fuel policy (ICCT, 2020) as well as other region/trade blocs (Africa, South America);
3. To understand the current vehicle emission and fuel quality regulatory status of ASEAN Member Countries and their plans to move towards the adoption more stringent standards;
4. To identify potential for future collaboration/regional cooperation on new areas for example the plan for electrification of heavy-duty vehicles.

Event format and time

This workshop is planned as a virtual workshop with participants coming from key ministries that are responsible for the issue of vehicle emissions and fuels from the ASEAN region. A total participant of 25 representing transport, energy, and environment authorities are expected to participate in the event. The workshop will be held on Wednesday to Thursday, 25 – 26 August 2021 from 09.00 am to 12.00 pm (Bangkok/Hanoi/Jakarta or GMT +7). Zoom link will be shared after online registration.

Daily program

Day 1 (25 August 2021)

08.50 – 09.00 am	Arrival to the virtual meeting room (ICCT – Aditya Mahalana)
09.00 – 09.15 am	Opening and introduction (ICCT&UNEP)
09.15 – 09.30 am	Q&A session (to agree on highlights of the workshop, expectation, including short introduction of the participants)
09.30 – 09.50 am	Environmental impacts and health costs in the ASEAN region and the linkage to transport sector , (ICCT-Josh Miller)
09.50 – 10.10 am	Opportunities for a transition to soot-free and zero emission heavy-duty vehicles and fuels , (ICCT – Francisco Posada)
10.10 – 10.30 am	Case study: transition to Euro VI vehicle emissions and fuel quality standards in India (ICCT – Anup Bandivadekar)
10.30 – 11.00 am	Q&A to the three presentations (Moderator – ICCT)
11.00 – 11.15 am	Discussion on the format and highlight for day-2 (Moderator – ICCT & UNEP)

Day 2 (26 August 2021)

09.00 – 09.10 am	Recap of Day-1 (ICCT – Aditya Mahalana)
09.10 – 11.00 am	Roundtable on status and plan on South East Asian Countries to move towards Euro VI (Each country to present 3 – 4 slides)
11.00 – 12.00 pm	Discussion on roadmap and way forward for ASEAN soot-free heavy-duty vehicles and fuels initiatives (UNEP – Bert Fabian and ICCT – Francisco Posada)
12.00 – 12.15 pm	Summary and closing (ICCT - Aditya/Francisco)